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of Medicine OMIM Nucleotide Protein Genome Structure PopSet Taxonomy **Books** Search PubMed Clear Go for Limits Preview/Index Clipboard Details History About Entrez Display Abstract 3 Sort Save Text Clip Add Order **Text Version 1:** Hybridoma 1991 Oct;10(5):633-40 Related Articles, NEW Links Entrez PubMed Overview Monoclonal antibodies against human antithrombin III. Help | FAQ Tutorial New/Noteworthy Hrkal Z, Cajthamlova H, Novak JT, Paluska E, Stockbauer P. E-Utilities Institute of Hematology and Transfusion, Praha, Czechoslovakia. PubMed Services Journal Browser Three monoclonal antibodies identified as D8, B11 and C5 of different specificities have been MeSH Browser Single Citation Matcher produced against human antithrombin III (AT). The apparent dissociation constants (Kd app) **Batch Citation Matcher** of the AT-antibody interaction were determined by ELISA method: Kd app (D8) = 2.4 nmole, Clinical Queries Kd app (B11) = 13 nmole, Kd app (C5) = 24 nmole. All three antibodies reacted with isolated LinkOut Cubby AT on immunoblots obtained with "native" PAGE. The D8 antibody also reacted with plasma and serum AT while B11 antibody reacted with serum thrombin-antithrombin (TAT) Related Resources complexes as well. Order Documents **NLM Gateway**

PMID: 1804774 [PubMed - indexed for MEDLINE]

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PopSet **OMIM** Nucleotide Structure Taxonomy Protein Genome **Books** Search | PubMed Go Clear for Limits Preview/Index Clipboard Details History About Entrez Sort Save **Text** Clip Add Display Abstract Order **Text Version** ☐ 1: J Heart Lung Transplant 1992 Mar-Apr;11(2 Pt 1):342-7 Related Articles, NEW Links Entrez PubMed Overview Natural anticoagulant pathways in normal and transplanted human hearts. Help | FAQ Tutorial New/Noteworthy Labarrere CA, Pitts D, Halbrook H, Faulk WP. E-Utilities Methodist Hospital of Indiana, Indianapolis 46202. PubMed Services Journal Browser We have studied two natural anticoagulant pathways in normal and in transplanted human MeSH Browser Single Citation Matcher hearts. The first is the thrombomodulin pathway. Our immunocytochemical results show Batch Citation Matcher thrombomodulin localized to endothelium in heart biopsy specimens before transplantation. Clinical Queries This reactivity persists in the absence of cellular rejection, but the infiltration of immune cells LinkOut Cubby is associated with a lack of endothelial thrombomodulin. The second pathway is composed of antithrombin III (ATIII) bound to heparan sulfate proteoglycan (HSPG) molecules on Related Resources endothelial cells. These ATIII-HSPG complexes bind and inactivate thrombin at the **Order Documents** endothelial surface. Our immunocytochemical results show ATIII localized to endothelium in **NLM Gateway** heart biopsy specimens before transplantation. This reactivity is present in the absence of TOXNET Consumer Health vascular rejection as defined by either angiography or microscopy. The absence of Clinical Alerts thrombomodulin and ATIII is always associated with fibrin deposition within the ClinicalTrials.gov microcirculation. Thrombomodulin and ATIII pathways appear to be independent, for cellular PubMed Central rejection often is associated with thrombomodulin-negative ATIII-positive endothelium, and

PMID: 1315572 [PubMed - indexed for MEDLINE]

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vascular rejection often is associated with thrombomodulin-positive ATIII-negative endothelium. Cytokines from activated macrophages down-regulate endothelial

thrombomodulin without generally affecting the ATIII-HSPG pathway. Immunosuppressive therapy depletes cytokine-producing cells that affect thrombomodulin, but there presently is no therapy to protect endothelium in vascular rejection. It is possible that heparin could interact with endothelium and bind ATIII to maintain a state of thromboresistance.







of Medicine N Nucleotide Protein Genome Structure PopSet Taxonomy OMIM **Books** Search PubMed Go Clear for Limits Preview/Index History Clipboard Details About Entrez Display Abstract Sort Sort Save Text Clip Add Order **Text Version** 1: J Chromatogr 1991 Feb 22;539(2):493-500 Related Articles, AEA Links Entrez PubMed Overview Purification of heparin cofactor II from human plasma. Help | FAQ Tutorial New/Noteworthy Toulon P, Chadeuf G, Aiach M. E-Utilities Laboratoire d'Hemostase, Hopital Broussais, Paris, France. PubMed Services Journal Browser Heparin cofactor II (HCII) is an inhibitor of thrombin in human plasma whose activity is MeSH Browser Single Citation Matcher enhanced by heparin and dermatan sulphate. HCII was purified to homogeneity from normal **Batch Citation Matcher** human plasma with an overall yield of 7.5%. After treatment with barium chloride, Clinical Queries precipitation with 50% saturated ammonium sulphate and dialysis of the resuspended LinkOut Cubby precipitate against 0.02 M Tris-HCl (pH 7.4), the sample was chromatographed on a heparin-Sepharose CL 6B affinity column, DEAE-Sepharose CL 6B ion-exchange gel and an AcA 34 Related Resources gel permeation column. For the final steps, a high-performance liquid chromatographic **Order Documents** system was used which included ion-exchange chromatography on a Mono-Q column and gel **NLM Gateway** permeation using a Superose column. The purified protein was homogeneous by sodium TOXNET Consumer Health dodecyl sulphate-polyacrylamide gel electrophoresis. The specific activity of purified HCII Clinical Alerts was 12.2 U/mg. The HCII activity was evaluated as antithrombin dermatan sulphate cofactor ClinicalTrials.gov PubMed Central activity. A specific antiserum against HCII was raised in the rabbit. **Privacy Policy** PMID: 2045458 [PubMed - indexed for MEDLINE]

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Autoantibodies to thrombomodulin: development of an enzyme immunoassay and a survey of their frequency in patients with the lupus anticoagulant.

Gibson J, Nelson M, Brown R, Salem H, Kronenberg H.

Haematology Department, Royal Prince Alfred Hospital, Sydney, NSW, Australia.

In order to investigate the possibility that autoantibodies to thrombomodulin (TM) may exist in patients with the lupus anticoagulant (LA) and perhaps be implicated in the pathogenesis of recurrent thrombosis seen in such patients, we developed an enzyme-immunoassay to screen serum samples for anti-human TM activity. The major technical problem encountered in developing this assay was to reduce the non-specific binding of serum components from both the LA positive and the negative population. Considerable reduction of non-specific binding was achieved by use of a phosphate/citrate buffer at pH 8.0 and the use of an optimal sample dilution of 1/40. In addition, samples were always tested in parallel in blank wells and results are expressed as an OD ratio. Samples from 113 patients with the LA were assayed and compared to 78 patients referred for LA testing but found to be negative. The mean OD values for the LA positive patients (+/- SD) was 1.36 (0.44) with a range of 0.78-2.57. This was virtually identical to the values for the LA negative population (1.38 +/- 0.40, range 0.76-2.77). The results of this study indicate that there is no evidence for the presence of a significant autoantibody activity to TM in patients with the LA when compared to LA negative patients. If such autoantibodies do exist their frequency must be quite low.

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Quantification and modulation of thrombomodulin activity in isolated rat and human glomeruli.

He CJ, Kanfer A.

Institut National de la Sante et de la Recherche Medicale, Hopital Tenon, Paris, France.

Thrombomodulin (TM), the endothelial cell surface receptor for thrombin-mediated activation of protein C and of its anticoagulant system, is involved in maintaining vascular nonthrombogenicity, and depressed TM activity may induce intravascular fibrin formation. TM antigen was previously found by immunohistochemical methods in rabbit glomeruli. We therefore attempted to identify the corresponding TM activity in isolated detergent-solubilized rat and human glomeruli. Like purified lung TM, rat glomeruli extracts accelerated the hydrolysis by activated protein C of the chromogenic substrate S-2238 in the presence of 10 nM thrombin, as determined by spectrophotometry. One mg glomerular protein promoted the formation of 681 +/- 115 nmol activated protein C, the equivalent of the amount generated by 845 ng of purified rabbit TM. TM activity correlated with the protein content of the glomerular extracts (r = 0.94). These extracts prolonged rat plasma activated partial thromboplastin time. Incubation of glomeruli with tumor necrosis factor-alpha (TNF) or E. coli lipopolysaccharide depressed their TM-like activity in a dose and time dependent manner. Incubation with TNF suppressed their anticoagulant activity. In human glomeruli, TM activity was also found at a level which corresponded to their TM antigen content, and was determined by ELISA with mouse monoclonal antibody. These results indicate that measurement of glomerular TM activity might help to clarify the mechanisms of intraglomerular fibrin deposition in renal diseases.

PMID: 1319519 [PubMed - indexed for MEDLINE]

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Effect of tissue factor pathway inhibitor (TFPI) in the HEPTEST assay and in an amidolytic anti factor Xa assay for LMW heparin.

Kristensen HI, Ostergaard PB, Nordfang O, Abildgaard U, Lindahl AK.

Biopharmaceuticals Research, Novo Nordisk A/S, Gentofte, Denmark.

Both the HEPTEST and amidolytic anti factor Xa assays are currently being used for heparin activity detection in plasma from patients receiving standard heparin or low molecular weight heparin (LMWH). In this study we have investigated the influence of recombinant and endogenous Tissue Factor Pathway Inhibitor (TFPI) on these assays. The HEPTEST determinations were performed on an ACL 300 R Clottimer using the APTT program which resulted in a longer incubation time with factor Xa than recommended by the manufacturer. rTFPI added to plasma prolonged the HEPTEST clotting time markedly, but had only a little effect in the amidolytic assay. Antibodies against TFPI (anti-TFPI) abolished these effects. The effect of adding rTFPI and Logiparin was additive. When anti-TFPI IgG was added to samples of normal plasma, a statistically significant shortening of the HEPTEST clotting time was seen. When anti-TFPI was added to plasma samples from volunteers who had received Logiparin by subcutaneous or intravenous injection, then the HEPTEST clotting time was shortened considerably. For some samples the clotting time was halved. These experiments show that the HEPTEST clotting time is prolonged not only by heparin-antithrombin III, but also by TFPI released by heparin injection.

PMID: 1332210 [PubMed - indexed for MEDLINE]

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Entrez PubMed Overview Help FAQ Tutorial New/Noteworthy E-Utilities	Immunocytochemical localization of endogenous anti-thrombin III in the vasculature of rat tissues reveals locations of anticoagulantly active heparan sulfate proteoglycans.								
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MeSH Browser Single Citation Matcher Batch Citation Matcher Clinical Queries	Laboratory of Electron Microscopy, Dana Farber Cancer Institute, Boston, Massachusetts 02115.								
LinkOut Cubby			endogenous anti chemical staining						
Related Resources Order Documents NLM Gateway TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central Privacy Policy	tissues, using rabbit alpha-human ATIII antibody that was shown to crossreact strongly with rat ATIII. EM immunocytochemical methods revealed discrete deposits of endogenous ATIII (absent after heparinase treatment), and thus by inference anticoagulantly active heparan sulfate proteoglycans (HSPGs) at a resolution of 10-20 nm, or an order of magnitude better than autoradiography or LM. ATIII was found in variable amounts almost entirely in the subendothelial space of blood vessels in various rat tissues. In kidney, ATIII was found immediately beneath the endothelium, in concentrated clusters associated with the vascular basement membrane. Equally important is the observed variation in expression of ATIII in the various tissues studied (i.e., kidney > liver, aorta, lung, spleen, adrenal > intestine, muscle, brain). On the basis of these observations, we confirm a model in which vascular abluminal and, perhaps to a much smaller extent, luminal anticoagulantly active HSPGs regulate coagulation mechanism activity, either by serving as a reserve of anticoagulant or by modulating the ambient function of the coagulation cascade. PMID: 7930519 [PubMed - indexed for MEDLINE]								
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